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AMENDMENTS TO THE CLAIMS

Please amend the claims of the present application as set forth below. A status identifier is provided for each claim in a parenthetical expression following each claim number. Changes to the claims are shown by strikethrough (for deleted matter) or underlining (for added matter).

1. (Original) A method, comprising:

defining, by an absolute location, one or more geographical regions in which one or more fixed resources are located;

defining a location of each of the one or more fixed resources within a geographical region, the location of each fixed resource being a relative location that is defined relative to the absolute location of the geographical region in which the fixed resource is located; and

storing the relative location of each fixed resource in a hierarchical directory structure having one or more levels corresponding to the one or more geographical regions, the relative location of each fixed resource being stored in the directory level corresponding to the geographical region from which the relative location of the fixed resource is derived.

 (Original) The method as recited in claim 1, wherein there are multiple geographical regions, and each geographical region is defined so that all but a largest geographical region are encompassed by at least one of the other geographical regions.

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- 3. (Original) The method as recited in claim 2, wherein each geographical region has a different size than the other geographical regions.
- 4. (Original) The method as recited in claim 1, wherein each of the one or more hierarchical directory levels has a class name selected from the following class names: country, state, territory, county, city, campus, building, area or floor.
- 5. (Original) The method as recited in claim 1, wherein the absolute location is represented by latitude and longitude coordinates.
 - 6. (Cancelled)
- 7. (Original) The method as recited in claim 1, wherein the relative location is represented by linear unit coordinates in relation to a known absolute location.
- 8. (Original) The method as recited in claim 1, wherein the location of each of the one or more fixed resources is stored as an object with one or more properties associated with the fixed resource.
- 9. (Original) The method as recited in claim 1, wherein the network comprises more than one server, and the hierarchical directory structure and the information stored therein is replicated on each server in the network.

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10. (Original) A method for searching for a location of a nearest fixed resource in a wireless network having one or more fixed resources, the method comprising:

receiving a request at a network server from a computing unit for a location of a nearest fixed resource;

determining a location of the computing unit;

searching a hierarchical directory structure containing fixed resource objects for a match with the requested fixed resource, each fixed resource object being stored in the hierarchical directory structure according to a location of each fixed resource;

determining which fixed resource object has a location that is nearest to the computing unit; and

transmitting data regarding the location of the nearest fixed resource to the computing unit.

11. (Original) The method as recited in claim 10, wherein the fixed resource objects are stored in the hierarchical directory structure according to a relative location of the fixed resource within a base geographical region in which the fixed resource is located, the base geographical region being stored in the hierarchical directory structure according to an absolute location of the base geographical region, the base geographical region being located within one or more extended geographical regions which are stored in the hierarchical directory structure according to an absolute location of each extended geographical region.

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- (Original) The method as recited in claim 11, wherein the searching 12. the hierarchical directory structure further comprises beginning at a geographical region in which the computing unit is connected, searching the geographical region and, if a matching fixed resource is not found, repeatedly searching a next-largest of the one or more of the extended geographical regions until a match is found or until all the geographical regions have been searched and no match is found.
- (Original) The method as recited in claim 11, wherein the searching 13. the hierarchical directory structure further comprises searching only a primary geographical region in which the computing unit is located and any secondary geographical regions that may be encompassed by the primary geographical region.
- (Original) The method as recited in claim 10, wherein the computing 14. unit is a mobile computing unit operating within the scope of the wireless network.
- (Original) The method as recited in claim 10, wherein the data 15. transmitted regarding the location of the fixed resource comprises directions from the location of the computing unit to the location of the fixed resource, the directions being displayable on the computing unit.
 - 16. (Original) The method as recited in claim 10, wherein:

the request is a request for a location of a nearest fixed resource having certain properties;

the searching further comprises searching for a match of the requested fixed resource having the requested certain properties; and

the determining comprises determining which fixed resource object having the requested certain properties represents a fixed resource that is nearest to the computing unit.

17. (Original) A method of storing fixed resource information about one or more fixed resources of a wireless network in one or more computer-readable media, the method comprising:

naming a fixed resource object with an object name that denotes a location of a fixed resource represented by the object, the fixed resource object including properties of the fixed resource; and

storing the fixed resource object according to the object name in a hierarchical directory structure in one or more computer-readable media, the hierarchical directory structure having multiple levels, each level representing a geographical region in which the fixed resource is located.

18. (Original) The method as recited in claim 17, the hierarchical directory structure having a lowest level and a highest level, the lowest level corresponding to a smallest geographical region covered by the wireless network, the highest level corresponding to a largest geographical region covered by the wireless network.

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19. (Original) The method as recited in claim 17, wherein the network comprises one or more servers containing computer-readable media, and wherein the storing the object further comprises storing the object in the computer-readable media of each of the one or more servers.

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- 20. (Original) The method as recited in claim 17, wherein the location of the fixed resource is a location that is defined relative to an absolute location.
- 21. (Original) The method as recited in claim 20, wherein the absolute location is a geographical region that is located within one or more other geographical regions, each geographical region corresponding to one level in the hierarchical directory structure, and wherein the object name associated with the fixed resource object comprises each geographical location in which the fixed resource is located and the relative location of the fixed resource.
- 22. (Original) The method as recited in claim 17, wherein there are multiple geographical regions that are divided into classes, each class corresponding to a level in the hierarchical directory structure, each geographical region belonging to one of the following classes: country, state, territory, county, city, campus, building, area or floor.
 - 23. (Cancelled)
 - 24. (Cancelled)

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2:	5.	(Current	i) The comp	out	er progr	am re	ecited in claim 24 2			
wherein	the	location	subsystem	comprises	a	locator	that	determines	a	usėr's
location.										

- 26. (Currently Amended) A location-aware computer program, comprising: The computer-program recited in claim 24, wherein the resource database further comprises
- a location subsystem to determine a location of a user within at least one geographical area:
- a resource database having records that each contain information about a resource, including a location of the resource, each record being ordered according to the location of the resource represented by the record, and a directory tree structure having multiple levels, each level representing a geographical area; and
- a query processor that receives a query from the user for a resource that is nearest to the user and returns a location of a resource that is nearest to the user.
- 27. (Currently Amended) The computer program recited in claim 24 26, wherein the query processor receives the location of the user and determines which resource is nearest to the user by searching the resource database beginning with the geographical area in which the user is connected to the network and, if a resource is not found, searching at least one other geographical area for a resource matching the query.

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- 28. (Currently Amended) The computer program recited in claim 24 26, wherein the location of the resource is a relative location stored with coordinates that are relative to a geographical area which is defined in absolute coordinates.
- 29. (Currently Amended) The computer program as recited in claim 24 26, wherein:

the information about a resource further includes properties of the resource; and

the query processor is further configured to receive a query from the user for a resource that is nearest to the user and that has at least one particular property, and to return a location of a resource that is nearest to the user and has the particular property requested by the user.

30. (Original) A wireless network system, comprising:

one or more servers having non-volatile memory;

at least one mobile computer located within multiple geographical areas covered by the wireless network system;

at least one fixed resource located within the geographical areas, the geographical areas each having an absolute location, the fixed resource having a relative location that is relative to the absolute location of a geographical area in which the fixed resource is located;

a location subsystem to determine the relative location of a mobile computer within a geographical area; and

a resource database stored in the memory of at least one of the servers, the resource database being organized in a directory tree structure having multiple

levels where each of the levels corresponds to a geographical area covered by the wireless network, a highest level corresponding to a largest geographical area and a lowest level corresponding to a smallest geographical area, wherein the relative location of the fixed resource is stored at a level which represents a smallest geographical region in which the fixed resource is located.

- 31. (Original) The wireless network system as recited in claim 30, wherein information regarding properties of each fixed resource is stored in the resource database together with the relative location of the fixed resource.
- 32. (Original) The wireless network system as recited in claim 30, wherein the relative location of the fixed resource is stored within the lowest level of the directory tree structure.
- 33. (Original) The wireless network system as recited in claim 30, wherein the fixed resource is stored in the database as a fixed resource object, the fixed resource object having a name associated with it that includes names assigned to each of the geographical regions that encompasses the fixed resource.
- 34. (Original) The wireless network system as recited in claim 30, wherein the fixed resource is stored in the database as a fixed resource object, the fixed resource object including properties of the fixed resource.

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24 25 35. (Original) The wireless network system as recited in claim 30, wherein the absolute locations are represented as longitude and latitude coordinates.

36. (Canceled)

37. (Original) The wireless network system as recited in claim 30, wherein each server is configured to:

receive a request from the mobile personal computer, requesting the location of a fixed resource that is nearest to the mobile personal computer;

determine the location of the mobile personal computer;

search the resource database for the location of the nearest fixed resource;

transmit data to the mobile personal computer containing information regarding the location of the nearest fixed resource.

38. (Original) The wireless network system as recited in claim 37, wherein the data transmitted to the personal computer includes directions from the location of the mobile personal computer to the location of the nearest fixed resource.

39. (Original) The wireless network system as recited in claim 37, wherein each server is further configured to search the resource database for the location of the nearest fixed resource starting at a level in the directory tree structure that corresponds to the geographical area in which the mobile personal computer is connected, if a match is not found, continually searching a next-higher level in the directory tree structure for a match until a match is found or until all the levels have been searched and no match has been found.

40. (Cancelled).

41. (Currently Amended) A The database as recited in claim 40, comprising:

multiple records associated with fixed resources in a wireless network; and a directory tree structure to organize the records according to a location of the fixed resource that the record represents, wherein the directory tree structure comprises multiple levels, each level representing a geographical area covered by the wireless network, a lowest level representing a smallest geographical area in which a fixed resource may be located, and each subsequently higher level of the tree structure representing increasingly larger geographical areas which encompass the fixed resources.

42. (Currently Amended) The database as recited in claim 40 41, wherein each record representing a fixed resource further comprises properties of the fixed resource represented by the record.

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43. (Currently Amended) One or more computer-readable media containing the database recited in claim 40 41.

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- 44. (Currently Amended) A server in a wireless network that contains the database recited in claim 40 41.
- 45. (Currently Amended) A wireless network having more than one server, wherein each of the servers contains the database recited in claim 40 41.
- 46. (Original) A wireless network as recited in claim 45, wherein the servers are configured to accept changes to the database and, when a change is made to the database in one server, the changed database is replicated in each of the other servers.